s/020/63/148/004/020/025 B144/B101

AUTHORS:

Kreshkov, A. P., Myshlyayeva, L. V., Soboleva, D. A.

TIT LE:

Synthesis of tris-(triphenyl-siloxy) aluminum and tetra-

(triphenyl-siloxy) sodium polyalumoxane

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 148, no. 4, 1963,

843-845

TEXT: Monomeric tris-(triphenyl-siloxy) aluminum (I) was economically synthesized for the first time from 0.02 M triphenyl-ethoxy silane (II) and 11 g sodium aluminate solution (III):  $(c_6H_5)_3$ SiOC<sub>2</sub>H<sub>5</sub> +  $H_2$ O  $(c_6H_5)_3$ SiOH +  $c_2H_5$ OH;  $3(c_6H_5)_3$ SiOH + NaAlO<sub>2</sub> -  $[(c_6H_5)_3$ SiO]  $3^{A1}$  + NaOH + H<sub>2</sub>0. A mixture of II obtained by distillation in vacuo at 196-201°C and reprecipitation with petrol ether, along with III containing 19.2% Al203 and 20.3% Na20, was stirred for 40 min without heating and then for 4.5 hrs at 50-60°C. I forming at the surface of the mixture as a white solid substance was separated. The yield was 35% (related to II)

Card 1/3

Synthesis of tris-(triphenyl-siloxy) ... S/020/63/148/004/025/025

and 1 - 2 (related to the molar Si:Al ratio). I is a nonmelting powder, soluble in diethyl ether and benzene and resistant to alkalies and heat. The product recovered in the filter after extraction of I contained 12.59%  $\rm SiO_2$ , 17.96%  $\rm Al_2O_3$ , 7.68%  $\rm Na_2O$ , 46.34% C and 5.20% H. This yielded the formula  $\rm (C_6H_5)_3SiO_2AlO$   $\rm Al_1-O_5Al$   $\rm (C_5H_5)_3SiO_2$ ·18H<sub>2</sub>O for

tetra-(triphenyl-siloxy) sodium polyalumoxane (IV), a white powder insoluble in organic solvents and stable to alkalies; yield 55 - 60%. The new substances were subjected to thermal, spectral and x-ray analyses. The thermogram of I revealed 3 exothermic effects corresponding to a subsequent splitting-off of the triphenyl-siloxy groups at 500, 600, and 700°C. This is confirmed by the thermogram of IV which shows two exothermic effects due to the 2 triphenyl-siloxy groups bound to Al and 1 endothermic effect produced by dehydration. The IR spectra indicated an absorption maximum at 1065 cm<sup>-1</sup> characteristic of the SiOAl group and further maxima at 700, 740, 997, 1123, 1432, and 1596 cm<sup>-1</sup> which are

further maxima at 700, 740, 997, 1123, 1432, and 1596 cm<sup>-1</sup> which are indicative of phenylated silanes and siloxanes. X-ray analysis showed that I and IV have crystalline structure. There are 2 figures.

Card 2/3

S/020/63/148/004/020/025 B144/B101

Synthesis of tris-(triphenyl-siloxy) ...

is - ( of ipheny i - biloxy ) ...

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

D.I. Mendeleyeva (Moscow Institute of Chemical Technology

imeni D.I. Mendeleyev)

PRESENTED:

July 2, 1962, by A.N. Nesmeyanov, Academician

SUBMITTED:

June 10, 1962

Card 3/3

Accession NR: AP4009839

5/0191/64/000/001/0065/0067

AUTHORS: Kreshkov, A.P.; My\*shlyayeva, L.V.; Krasnoshchekov, V.V.

TITLE: Methods of silicon determination in silico-organic compounds and a comparative evaluation of these methods

SOURCE: Plasticheskiye massy\*, no. 1, 1964, 65-67

TOPIC TAGS: substituted silanes, polysiloxanes, silicone rubber, oxysilanes, silicon determination, analytical chemistry

ABSTRACT: Because the recommended method of silicon determination by fusion in a bomb is not always expedient, the authors investigated and proposed other methods of Si determination in silico-organic compounds (SOC): most precise, but time consuming, is wet oxydation by a mixture of oleum and fuming nitric acid in quartz flasks with subsequent Si-determination by gravimetric and volumetric methods. SOC oxidation in a platinum cricible with the same acids is less precise than in a quartz flask but the volumetric tests is faster.

Card 1/2

### ACCESSION NR: AP4009839

A fast method is based on the oxidation of SOC by a mixture of sulfuric and chromic acid in a stream of oxygen but it cannot be used with volatile substances. Si-determination by fusing in bomb with sodium peroxide corrodes the bomb and contaminates the substance. Some improvements, which give greater analytical accuracy, consist in oxidizing in open crucibles cooled in liquid air and in the use of sodium fluoride instead of ammonium fluoride in acidimetric titration. The use of nickel or Cr-Ni bombs instead of steel is recommended to avoid contamination. About 40 mono- and polymer SOC were analyzed by the authors using the most appropriate of the above methods and the results are consolidated in tables. The methods are explained and described in detail. Orig. art. has no figures, 3 formulas, 4 tables.

ASSOCIATION: None

SUBMITTED: CO

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: CH

NO REF SOV: Olo

OTHER: 007

Card 2/2

KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; GENSHAFT, Yu.S.; KRASNOSHCHEKOV, V.V.

Interaction of silicohydrofluoric acid with benzidine. Zhur.neorg.khim.
9 nc.1:183-186 Ja '64. (MIRA 17:2)

MYSHLYAYEVA, L.V.; MIKHAYLENKO, Yu.Ya.; KRASNOSHCHEKOV, V.V.; KUCHKAREV, Ye.A.

Rapid method of determining chlorine in alkyl(aryl)chlorosilanes.

Trudy MKHTI no.44:139-142 \*64. (MIRA 18:1)

MYSHLYAYEVA, L.V.; KRASNOSHCHEKOV, V.V.; SHATUNOVA, T.G.; SEDOVA, I.V.

Determination of iron in ferrozene and its organosilicon derivatives. Zav. lab. 30 no.8:944 '64. (MIRA 18:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

1 23512-65 EWT(m)/EPF(c)/EWP(v)/EPR/EWP(J)/T ACCESSION NR: AP4047126 Pr-4/Pa-4/Pa-4 AUTHOR: Kreshkov, A. P.; My\*shlyayeva, L. V.; Soboleva, D. A. 8/0080/64/037/010/2278/2288 TITLE: The reactions of certain\_alkyl-alkyloxy silanes with squeous alkali zincate SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 21/78-2283 TOPIC TAGS: alkylalkyloxysilans, alkylsilanolate zincate, alkylsilanolate beryllate, impregnant, surfactant impregnant, glass cloth impregnant ABSTRACT: The reactions of trimethylmethoxy silane (I) and of dimethyldimethoxysilane (II) with aqueous alkeli solutions of sodium zincate (III) and sodium beryllate (IV) were investigated. Reactions of I with III and IV within a wide molar ratio of the reactants (Si:Zn(Be) = 2:1, 1:1, 1:2 and 1:3) all gave products having the molecular compositions 6(CH<sub>3</sub>)<sub>3</sub>SiONa. Na<sub>2</sub>ZnO<sub>2</sub>. 3OH<sub>2</sub>O (sodium monozincate of 6-trimethylsilanolate), and 3(CH<sub>3</sub>)<sub>3</sub>SiONs. Na<sub>2</sub>BeO<sub>2</sub>. 22H<sub>2</sub>O (sodium monoberyllate of 3-trimethylsilanolate), respectively. The Cord1/2

## "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135820016-4

L 23512-65

ACCESSION NR: AP4047126

 $3(CH_3)_2Si(OH)ONa$ ,  $Na_2ZnO_2$ ,  $10H_2O$  (sodium monozincate of 3-dimethylhydroxylsilanolate) and 3(CH<sub>3</sub>)2Si(OH)ONa, Na<sub>2</sub>BeO<sub>2</sub>, 22H<sub>2</sub>O(sodium monoberyllate of 3dimethylhydroxysilanolate) were obtained by reaction of II with III and IV solutions only when the reactant molar ratio was such that Si:Zn(Be) was 4:1. Other reactant ratios gave mixtures of products of variable compositions. The obtained products were subjected to IR spectroscopic, ionizing x-ray and microcrystalloscopic analyses. The products could be applied to cotton and glass cloth as impregnants in the form of aqueous alcoholic solutions to reduce their adhesion 15 to polymeric materials such as polyvinyl chloride. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 02Oct62

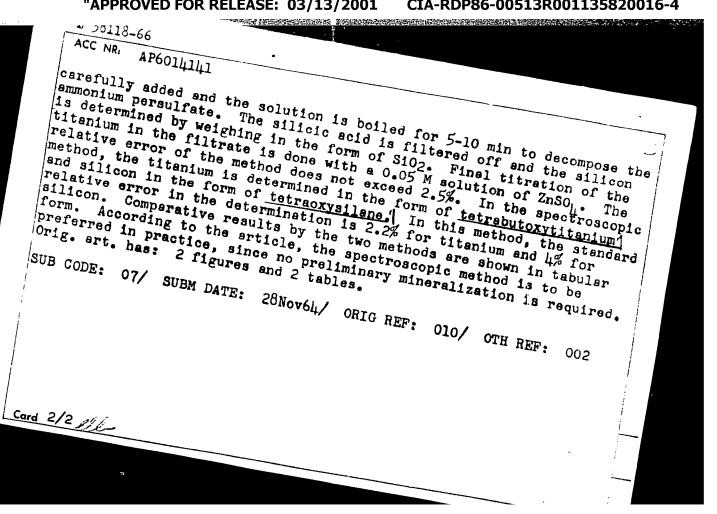
SUB CODE: oc. GC

ENCL: 00

OTHER: 001 NO REF SOV: 010

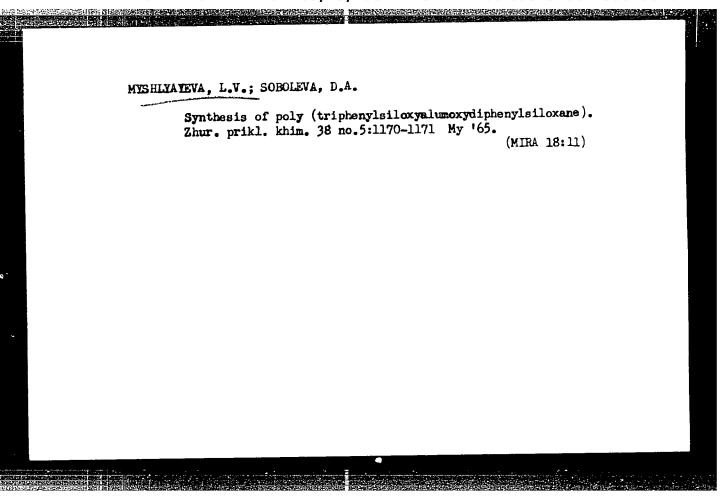
Cord 2/2

AUTHOR: Kreshkov, A. P.; Myshlyayeva, L. V.; Kuchkarev, Ye. A.; Shatunova, T. G.  ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moscovskiy khimiko-tekhnologicheskiy institut)  TITLE: Quantitative determination of titanium in titanium-organic and titanium-silicon-organic compounds  SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329  TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon compound  ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric scid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-1000 and complete mineralization of the weighed portion is cerried out with ammonium persulfate. The solution is cooled and 30 ml of water are	L 38118-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/RM
AUTHOR: Kreshkov, A. P.; Myshlysyeva, L. V.; Kuchkerev, Ye. A.; Shatunova, T. G.  ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moscovskiy khimiko-tekhnologicheskiy institut)  TITLE: Quantitative determination of titanium in titanium-organic and titanium-silicon-organic compounds  SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329  TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon compound  ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-100° and complete mineralization of the weighed portion is carried out with ammonium persulfate. The solution is cooled and 30 ml of water are	ACC NR. AP6014141 (A) SOURCE CODE: UR/0075/65/020/012/1325/1329
(Moscovskiy khimiko-tekhnologicheskiy institut)  TITLE: Quantitative determination of titanium in titanium-organic and titanium-silicon-organic compounds  SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329  TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon compound  ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-100° and complete mineralization of the weighed portion is carried out with ammonium persulfate. The solution is cooled and 30 ml of water are	AUTHOR: Kreshkov, A. P.; Myshlyayeva, L. V.; Kuchkerev, Ye. A.;
SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329  TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon compound  ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-100° and complete mineralization of the weighed portion is carried out with ammonium persulfate. The solution is cooled and 30 ml of water are	(Moscovskiy khimiko-tekhnologicheskiy institut)
TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon compound  ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-100° and complete mineralization of the weighed portion is carried out with ammonium persulfate. The solution is cooled and 30 ml of water are	TITLE: Quantitative determination of titanium in titanium-organic and titanium-silicon-organic compounds
ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-100° and complete mineralization of the weighed portion is carried out with ammonium persulfate. The solution is cooled and 30 ml of water are	SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329
titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the evolution of H <sub>2</sub> SO <sub>1</sub> vapors. The solution is cooled to 90-1000 and complete mineralization of the weighed portion is carried out with ammonium persulfate. The solution is cooled and 30 ml of water are	
ammonium persulfate. The solution is cooled and 30 ml of water are	titanium, a titration (complexometric) and a spectroscopic method. In the titration method, a weighed portion of the compound to be analyzed, containing 10-15 mg of titanium, is introduced into 5-7 ml of concentrated sulfuric acid. The mixture is heated for 10-15 minutes up to the avalution of H-SQ, vapors. The solution is cooled to 90-100° and
Card 1/2 UDC: 543.70:543.80	ammonium persulfate. The solution is cooled and 30 ml of water are
44.4	Card 1/2 UDC: 543.70:543.80

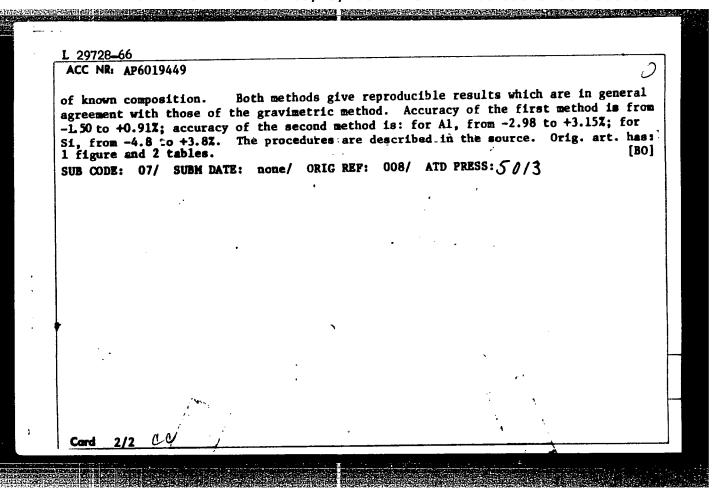


L 53889-65 ENT(m)/EPF(c)/ENP(1)/ENA(s) Pe-L/Pr-L JN/EM ACCESSION NR: AP5014166 UR/0080/65/038/005/1170/1171 547.245 AUTHOR: Myshlyayeva, L. V.; Soboleva, D. A. TITLE: Synthesis of poly(triphenylsiloxyalumooxydiphenylcyclooxane) SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 5, 1965, 1170-1171 TOPIC TAGS: polymer, silane, aluminum, organo metallic compound, heterocyclic polymer, resin ABSTRACT: Poly(triphenylsiloxyalumooxydiphenylcyclooxane) was synthesized by adding 8 g of alkaline aqueous solution of sodium aluminate (containing 19.2% Al>O3 and 20.3% Na<sub>2</sub>0) to a mixture of 3 g of triphenylethoxysilane and 2.7 g of diphenyldiethoxysilane. The reaction mixture was agitated for 2 hours at room temperature and then for 6 hours at 50-60°C. Two products were obtained: a solid benzene-insoluble powder with empirical formula C30H29Si2Al and a benzene soluble resin with empirical formula C30H29Si2Al. Both of these products as well as a byproduct of the synthesis of tris-(triphenylsiloxy) aluminum (A. P. Kreshkov, et al. Dokt. Akad. Nauk SSSR, 148, 4, 843, 1963) with empirical formula C120H110SigAl4 are Card 1/2

hese three productions through and maxima at frequence eristic for diphenylailanes ion that the basic structur	X-ray examination. The IR absorption spectra of all ntical. A maximum at 1080 cm <sup>-1</sup> indicates Si-0-Al ntical. A maximum at 1080 cm <sup>-1</sup> indicates Si-0-Al ies of 700, 740, 997, 1123, and 1432 cm <sup>-1</sup> are character is postulated on the basis of the above information that unit of these three compounds is: $\begin{bmatrix} C_8H_8 & (C_8H_8)_3 & \vdots \\ -Si-0-Al-0-Si-0 & \vdots \\ -Si-0-Al-0-Si-0 & \vdots \end{bmatrix}$
Orig. art, has: 1 table an	
ASSOCIATION: NOIS SUBMITTED: 10Nov63 NO REF SOV: 004	ENCL: 00 SUB-CODE: CC; CO



TITLE: Accelerated methods for determining aluminum and silicon in organic compounds containing aluminum and silicon  SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 3, 1966, 60-62  TOPIC TAGS: Accelerated Confession, Junious Accelerated Silicon determining Allow Compounds, Allow Confession, Julian Allow Containing Allow Compounds, Containing Allow Compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC). The first method is the determination of aluminum by titrathese elements in ASOC. The first method is the determination of aluminum by titration involving complex ion formation. The Si-O(All bond is hydrolyzed with a tion involving complex ion formation. The Si-O(All bond is hydrolyzed with a conficuency of these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions and stabilizing the hydrolysis products. Titration is conducted readily dissolving and stabilizing the hydrolysis products. Titration is conducted in aqueous—methanol or aqueous—acetone solutions. The titrant is zinc sulfate; the in aqueous—methanol or aqueous—acetone solutions. The titrant is zinc sulfate; the indicator is Xylenol Orange or dithizone. The second method is spectroscopic for indicator is Xylenol Orange or dithizone. The second method were verified with ASOC sources and the contribute to the fast hydrolysis by the second method is spectroscopic for indicator is Xylenol Orange or dithizone. The second method were verified with ASOC sources and the contribute to the fast hydrolysis by the second method is spectroscopic for indicator is Xylenol Orange or dithizone. The second method were verified with ASOC sources and the contribute to the fast hydrolysis by the contribute to the fast hydrolysis by the co	L 29728_66
TOPIC TAGS: Activities of Compound, Salcon Compound, Chemical Official, Treingrey, Aliminum Compound, Salcon Compound, Compound, Compounds of Si in Al- and Si-containing Abstract: Current methods for determining Al and Si in Al- and Si-containing time-consuming. The authors have developed two accelerated methods for determining time-consuming. The authors have developed two accelerated methods for determining time-consuming. The authors have developed two accelerated methods for determining time-consuming complex ion formation. The Si-O Al bond is hydrolyzed with a tion involving complex ion formation. The Si-O Al bond is not affected 2N aqueous solution of HCL in acetone or methani maxim. The Si-C bond is not affected 2N aqueous solutions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by in aqueous-acetone solutions. The titrant is zinc sulfate; the in aqueous-methanol or aqueous-acetone solutions. The titrant is spectroscopic for indicator is Kylenol Orange or dithizone. The second method is spectroscopic for indicator is Kylenol Orange or dithizone. The second method is spectroscopic for indicator is Kylenol Orange or dithizone. The two methods were verified with ASOC solutions into a low-power spark discharge. The two methods were verified with ASOC	containing aluminum and service materialy 1 ikh primeneniye, no. 3, 1966, 60-62
	TOPIC TAGS:  Traingrey, alumns um compound, salcon compound, themical determining ABSTRACT: Current methods for determining Al and Si in Al- and Si-containing organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds. The authors have developed two accelerated methods for determining time-consuming. The authors have developed two accelerated methods for determining time-consuming. The authors have developed two accelerated methods for determining time-consuming. The first method is the determination of aluminum by titra- these elements in ASOC. The first method is the determination of aluminum by titra- these elements in ASOC. The first method is the determination of aluminum The Si-C bond is not affected 2N aqueous solution of HCL in acetone or methand maxim. The Si-C bond is not affected 2N aqueous solutions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The second method is spectroscopic for indicator is Kylenol Orange or dithizone. The second method is spectroscopic for indicator is Kylenol Orange or dithizone. The second method serve verified with ASOC solvents and selections. The two methods were verified with ASOC
	Card 1/2 UDC: 543.42



ACCESSION NR: AP4043302

\$/0032/64/030/008/0944/0944

AUTHOR: My\*shlyayeva, L. V.; Krasnoshchekov, V. V.; Shatunova, T.G.; Sedova, I. V.

TITLE: Determination of iron in ferrocene and its organosilicon derivatives

SOURCE: Zavodskaya laboratoriya, v. 30, no. 8, 1964, 944

TOPIC TAGS: iron determination, ferrocene, ferrocene organosilicon derivative

ABSTRACT: A new rapid method for the quantitative determination of iron in ferrocene and ferrocene organosilicon derivatives was developed at the Moscow Chemical Technology Institute imeni D. I. Mendeleyev. The method is based on decomposition of the sample with a mixture of hydrochloric acid and ammonium persulfate followed by iodometric or complexometric determination of Fe<sup>3+</sup>. The method is claimed to be satisfactorily accurate and reproducible and considerably to exceed other methods in the rapidity of sample decomposition.

Card , 1/2

ACCESSION NR: AP4043302

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Chemical Technology Institute)

SUBMITTED: 00

ATD PRESS: 3084

ENCL: 00

SUB CODE: GC

NO REF SOV: 000

OTHER: 000

Card 2/2

MYSHLYAYEVA, N. A. -- "Wild Cherry Seedlings for Moscow Oblast." Moscow, 1956. (Dissertation for the Degree of Candidate in Agriculture Sciences).

So.: Knizhnaya Litopis', No. 7, 1956.

MYSHLYAYEVA, N.A., kand. sel'skokhozyayetvennykh nauk

Propagating fruit trees by grafting. Biol. v shkole no. 3:40-46
My-Je '58. (HIRA 11:8)

1. Institut metodov obucheniye APN RSFSR.
(Grafting--Study and teaching)

MYSHLYAYEVA, H.A., kand.sel'skokhozyaystvennykh nauk; FEDOROVA, V.N., kand.ped.nauk

Lessons in studying the subject "Roots, ibsorption of water and mineral substances from the soil." Biol.v shkole no.5:34-h1 S-0 '59. (MIRA 13:8)

1. Institut metodov obucheniya 4PN RSFSR. (Botany--Study and teaching)

(Roots (Botany))

MYSHLYAYEVA, N.A., kand.sel'skokhozyayetvennykh, nauk

Conducting experimental and practical work in the cultivation of agricultural plants on a school experimental plot. Biol. v shkole no.5:34-39 S-0 161. (MIRA 14:9)

1. Institut obshchego i politekhnicheskogo obrazovaniya Akademii pedagogicheskikh nauk RSFSR.

(School gardens)

FEDOROVA, V.N., starshiy nauchnyy sotr.; MYSHIYAYEVA, N.A., mlad.
renchnyy sotr.; CRICOR'YEVA, N.P., mlad. nauchnyy sotr.; KIVOTOV, S.A., zasl. uchitel shkoly RSFSR; SHADRINA, M.S.,
red.; NOVOSELOVA, V.V., 'n. red.

THE PROPERTY OF THE PROPERTY O

[Tie between teaching botany and the work of students in plant growing]Sviaz' obucheniia botanike s trudom uchashchikhsia po rastenievodstvu. Pod red. V.N.Fedorovoi. Moskva, Izd-vo Akad. pedagog.nauk RSFSR, 1962. 146 p.

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut obshchego i politekhnicheskogo obrazovaniya.

(Botany—Study and teaching)

# MYSHLYAYEVA, N.A., kand.sel'skokhozyaystvennykh nauk Content and organization of experimental work in agriculture in urban schools. Biol. v shkole no.2:49-54 Mr-Ap '62. (MIRA 15:2) 1. Institut obshchego i politekhnicheskogo obrazovaniya Akademii pedagogicheskikh nauk RSFSR. (Agriculture--Study and teaching)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135820016-4"

National Control

MYSHLYAYEVA, V. V. Cand. Tech. Sci.

Dissertation: "Search for Sulfate-Resistant Portland-Cements." Moscov Order flein Chemicotechnological Instiment D. I. Mendeleyev, 17 Dec 47.

SC: Vechernyaya Moskya, Dec, 1947 (Project #17836)

MYSHLYAYEVA, V. V.

26326 Korroziya tsementov razlichnogo mineralotich-eskogo sostava. Sbornik nauch. Rabor po vyazhushchim materialam. m., 1949, s. 99-110.

SO: LETOPIS' NO. 35, 1949

MYSHLYAYEVA, V. V.

Yung, V. N. and Myshlyayeva, V. V. - "Cements from sulphated lime—ash pits," Trudy

Mosk. khim.-tekhnol. in-ta im. Mendeleyeva, Issue 15, 1949, p. 51-62

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

MYSHLYAYEVA, V. V.

35336. Vliyanie Gipsana Portlandtsementy Razlichbogo Mineralogicheskogo Sostava. Trudy Mosk. Khim. -Tekhnol. In-Ta Im. Mendeleeva, Vyp. 16, 1949, S. 30-42

SO: Letopis'Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

SERVICE OF THE PROPERTY OF THE

MYSHLYAYEVA, V. V.

SUSBACH, YE. I. - insh. i, MYSHIYAYEVA. V. V. - Kand. tekhn. nauk., ROYAK, S. M. - Kand. tekhn. nauk.

Vsesoguznyy nauchno-issledovatel'skiy institut tsementnoy promyshelenmosti (NIITSement)

ULUCESHENIYE KACHESTVA MAGNEZIAL'NOGO SILIKATTSEMENTA Page 107

SO: Collection of Amountations of Scientific Research Work on Construction, completed in 1950, Moscow, 1951

15-57-5-6572

Referativnyy zhurnal, Geologiya, 1957, Nr 5, Translation from:

p 124 (USSR)

AUTHORS: Royak, S. M., Myshlyayeva, V. V., Tendilova, K. B.

An Investigation of Hydraulic Admixtures of Volcanic TITLE:

Origin (Issledoveniya gidravlicheskikh dobavok vulkani-

cheskogo proiskhozhdeniya)

Sb. nauch. rabot po khimii i tekhnol. silikatov. PERIODICAL:

Moscow, Promstroyizdat, 1956, pp 95-111.

ABSTRACT: Hydraulic admixtures investigated were the Ani pemza

(pumice), the Yadrino, Abbastapinskiy, and Tedzamskiy tufy (tuffs), and tuff "B." The Abbastapinskiy and Tadrino tuffs and tuff "B," oversaturated with silica (and containing quartz, chalcedony, feldspar, and biotite), have a high activity (140 to 256 mg CaO per g) and at the same time a high loss in weight during roasting. They also have a high content of soluble alumina, up to nine percent. All cements containing

Card 1/2

s proportion of 50 percent admixture of these materials

15-57-5-6572

An Investigation of Hydraulic Admixtures of Volcanic Origin (Cont.)

are sulfate-resistant. The formation of calcium sulfo-sluminate in puzzolan portland cements, both from C<sub>3</sub>A clinker and from slumina impurities, has a negative influence on the sulfate resistance of puzzolan portland cements in those cases in which the activity ratio of 1 mg of CaO to percentage of "soluble" Al<sub>2</sub>O<sub>3</sub> in the mixture is less than 10 to 15. The specified technical conditions for the required content of C<sub>3</sub>O (no more than eight percent) in the clinker of sulfate-resistant puzzolan cement that contains admixtures of sedimentary origin should be preserved by using a 3O percent proportion of the above-mentioned admixtures of volcanic material. Admixtures of volcanic origin, suitable for the manufacture of sulfate-resistant puzzolan portland cements, have a ratio of

1 mg CaO % "Soluble" Al<sub>2</sub>O<sub>3</sub>

greater than 10 to 15. Card 2/2

V. P. Ye.

MYSHLIAYEJA VV

USSR/Chemical Technology. Chemical Products and Their I-9

Application - Silicates Glass. Ceramics. Binders.

: Referat Zhur - Khimiya, No 4, 1957, 12656 Abs Jour

: Royak S.M., Myshlyayeva V.V., Tandilova K.B. Author

All-Union State Scientific Research Institute of Cement Inst

Industry

Sulfate Stability of Cements with Active Additions of Title

Volcanic Origin

Tr. Gos. vses. n.-i. in-ta tsement. prom-sti, 1956, Orig Pub

No 9, 82-108

: A study was made of the correlations between sulfate sta-Abstract

bility of puzzuolanic Portland cements (P) containing acid and basic additions of volcanic origin, and the nature of the additions and their content in alumina. Confirmed was the correlation between amount of extraneous admixtures, content of soluble alumina and activity of CaO absorption, in the case of tuffs. With increase in

- 108 -Card 1/3

CIA-RDP86-00513R001135820016-4" APPROVED FOR RELEASE: 03/13/2001

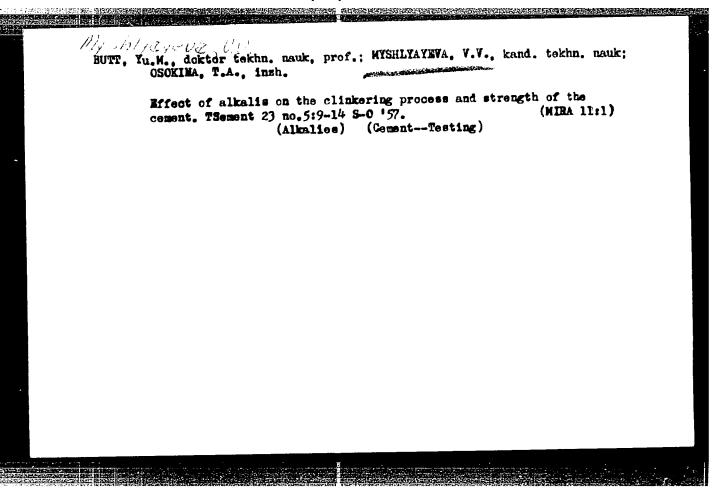
YUNG, V.N., doktor tekhnicheskikh nauk, professor; BUTT, Yu.N., doktor tekhnicheskikh nauk, professor; MYSHLYAYEVA, V.V., kandidat tekhnicheskikh nauk.

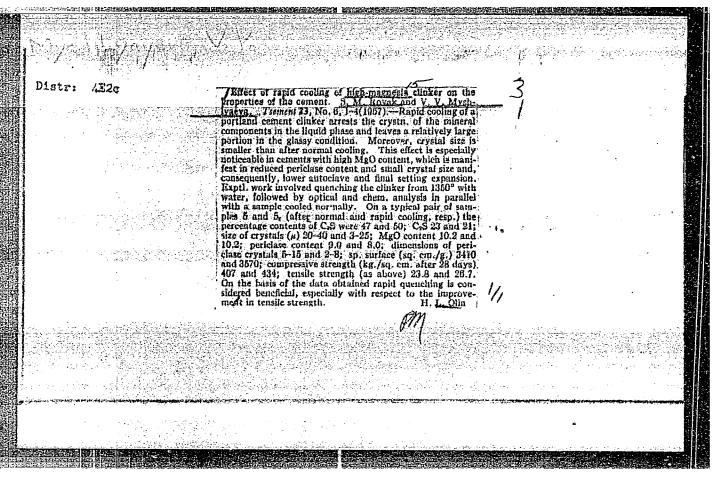
Effect of alkalis on the properties of calcium silicate. TSement 17 no.6:9-13 H-D '56. (MLRA 9:8)

(Calcium silicates) (Alkalies)

MYSHLYAYEVA, V.V., kandidat tekhnicheskikh nauk; LUKEMA, M.N., inzhener.

Rapid determination of calcium oxide and magnesium by the trilonometric method, TSement 22 no.5:23-25 S-0 '56. (MLRA 10:1) (Gement--Analysis) (Trilon B)





#### CIA-RDP86-00513R001135820016-4 "APPROVED FOR RELEASE: 03/13/2001

SOV-28-58-4-23/35

Myshlyayeva, V.V., Nagerova, E.I., Candidates of Techni-AUTHORS:

cal Sciences, and Lukina, M.N., Engineer

Methods of Chemical Analyses of Portland Cements (Metody TITLE:

khimicheskogo analiza portlandtsementov). Revision of

GOST-Standards 5382-50 (K peresmotru GOST 5382-50)

Standartizatsiya, 1958, Nr 4, pp 73 - 75 (USIR) PERIODICAL:

The revision of existing standards for methods of chemical ABSTRACT:

analyses of Portland cements was necessary in order to include into the standards classical methods of analysis specified in practical use as well as new speed-up methods, such as trilonometric determination of magnesium oxide and photocolorimetric determination of ferric and manganese oxide. The proposed modifications and additions to classical methods will provide data of higher accuracy relating to the chemical composition of Portland cements. The new speed-up methods will enable cement workers to control

and evaluate rapidly the yield quality.

ASSOCIATION: NIITsement

> 1. Cement--Chemical analysis 2. Chemical analysis--Standards

Card 1/1

CIA-RDP86-00513R001135820016-4" APPROVED FOR RELEASE: 03/13/2001

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
BUTT, Yu.M.; MYSHLYAYEVA, V.V. kand.tekhn.nauk; OSOKINA, T.A., inzh.	
Interaction of cement alkalies and reactive concrete fillers.	
Stroi.prom. 36 no.4:29-32 Ap '58. (MIRA 11:4)	
1. Chlen-korresvondent Akademii stroitel'stva i arkhitektury (for Butt).	:
(Alkalies) (Gement)	
5 ·	

# Myshliaeva, V.

Chemical control in the cement injustry of the Soviet Union. p. 160.

REVISTA DE CHI HE. (Ministerul Industriei Petrolului si Chimici si Asociatia Stiintifica a Inginerilor di Technicienilor din Romianta) Bucuresti, Rumania. Vol. 10, no. 3, Mar. 1959.

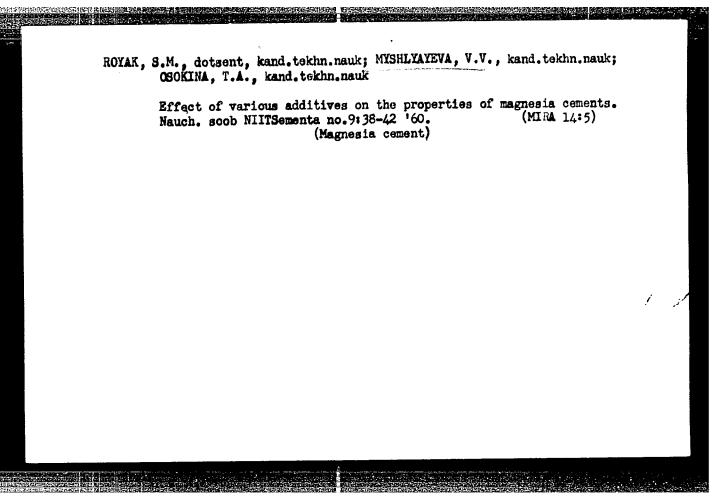
Monthly list of Bast Suropean Achessions (BEAI) LO, Vol. 6, no. 8, Aug. 1959 Uncl.

WIELTHAM DE LEGEN AND DE LEGEN DE LA COMPANIE DE LEGEN DE

MYSHLYAYEVA, V.V., kand.tekhn.nauk; NAGEROVA, E.I., kand.tekhn.nauk;
OSOKINA, T.A., kand.tekhn.nauk

Developing methods of detecting boron and flourine in cement materials.
Nauch.soob.NIITSementa no.8:23-28 '60. (MIRA 14:5)

(Boron-Analysis) (Flourine-Analysis) (Cement)



MYSHLYAYEVA, V.V., kand.tekhn.nauk; NAGEROVA, E.I., kand.tekhn. nauk

Methods of analyzing barytic and boron-containing cements and
materials. Nauch. soob. NIITSementa no.11:39-42 '61.

(Cement --Analysis)

(Materials--Analysis)

(Materials--Analysis)

ROYAK, S.M., prof.; MYSHLYAYEVA, V.V., kand. tekhn. nauk; CHERNYAKHOVSKIY, V.A., inzh.

Study of the properties of cement with an increased magnesium oxide content after prolonged hardening. Trudy NIITSement no.19; 30-51 163.

(MIRA 17:11)

MYSHLYAYEVA, V.V., kand. tekhn. nauk; OSCKINA, T.A., kand. tekhn. nauk; LUKINA, M. N. Inzh., San'KO, T.M., inzh.

Using the FET-UNII? for determining calcium oxide and magnesium in materials for cement production by phototrilonometric titration. Trudy MIITSement no. 19:107-112 163. (MIRA 17:11)

Portland cement with high magnesium content. Epitoanyag 16 no. 5:183-186 My '64.
1. Vsesoyuznyy gosudarstvennyy nauchno-issledovatel skiy institut tsementnoy promyshlennosti, Moskva.

ROYAK, S.M., prof.; MYSHLYAYEVA, V.V., kand. tekhn. nauk; CHERNYAKHOVSKIY, V.A., inzh.

Structure of periolase in cement clinkers. Trudy NIITSement no.18: 29-49 163. (MIRA 18:9)

L 44391-66 EWT(m)

ACC NR: AP6021384 (A

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SOURCE CODE: UR/0101/66/000/002/0009/0009

AUTHOR: Myshlyayeva, V. V. (Candidate of technical sciences); Osokina, T. A. (Candidate of technical sciences)

ORG: none

TITLE: New standard for chemical analysis methods

SOURCE: Tsement, no. 2, 1966, 9

28

1/

TOPIC TAGS: analytic chemistry, quantitative analysis, chemical composition, cement, structural mineral product

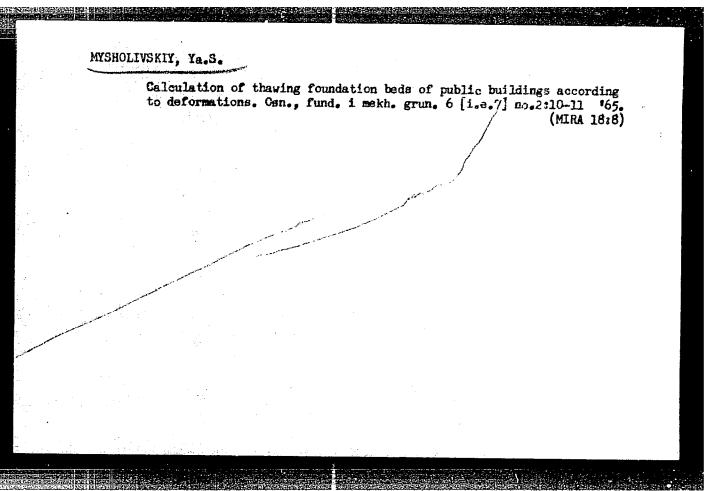
ABSTRACT: The substitution of GOST 5382-65 for GOST 5382-58, to be effective July 1, 1966, is discussed. GOST 5382-65 refers to "Cements.15 Methods of Chemical Analysis." The old standard was established in 1958 before methods based on Trilon B and photo-electrocolorimetry had been perfected. It is stated that the GOST 5382-65 calls for photocolorimetric analysis for the basic components in Portland cements and for CaO determination by photoelectric titration using the FET-UNIIZ instrument. The GOST 5382-65 standard also requires that the same analytical methods be employed in testing clinkers and slips. It is suggested that the GOST 5382-65 standard be put into practice in all quality control laboratories of the cement industry. It is claimed that the analytical methods recommended by the GOST 5382-65 are faster and more accurate than those required by the old GOST 5382-58 standard.

SUB CODE: 07,11/

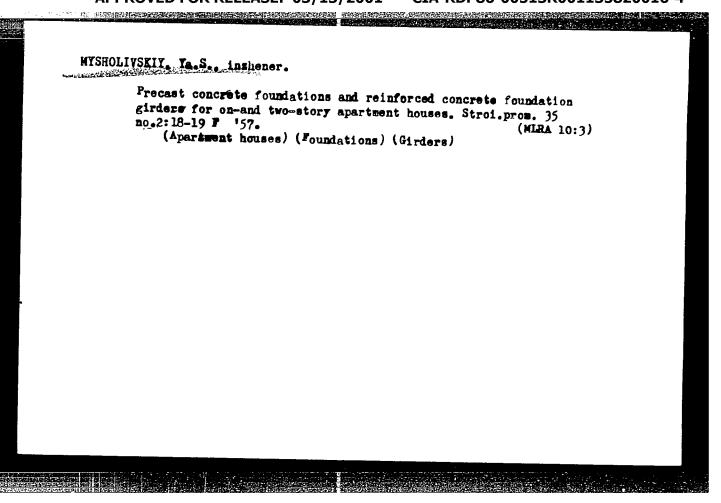
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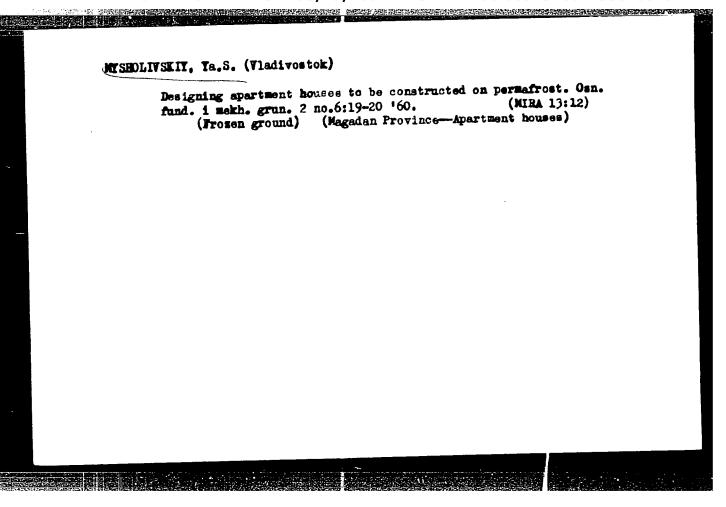
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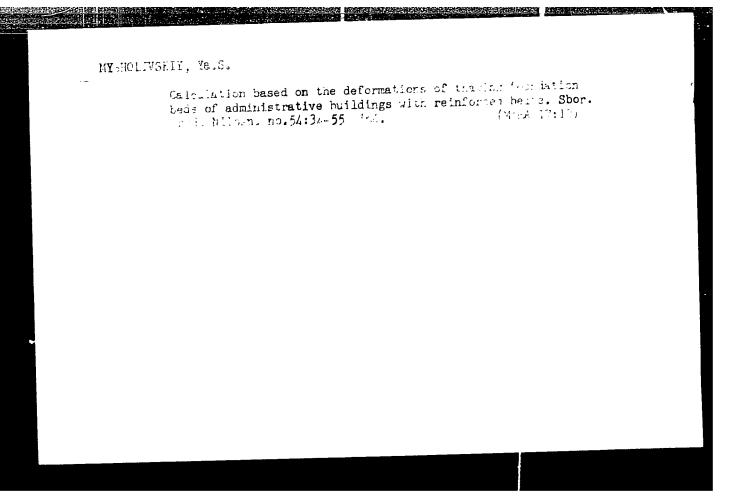
UDC: 666.94 : 543.06



APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135820016-4"



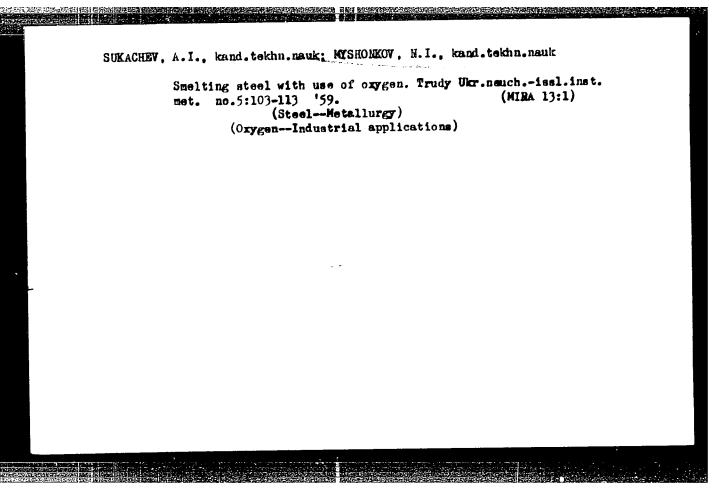




MYSHONKOV, N.I.

Dissertation: "Investigation of the Condition of Transition of Physphorus From Metal Bath Into Slag." Cand Tech Sci, Donets Industrial Inst., Stalino, 1953 (Referativnyy Zhurnal, Khimiya, Moscow, No 15, Aug 54)

SO: SUM 393, 28 Feb 1955



Derfel', A.G., Dubina, Yu.G., Kotin, A.G., Myshonkov, N.I., Sologub, S.L., Tret'yakov, Ye.V., Khmirov, V.I., AUTHORS:

Chernenko, F.A. and Shneyerov, Ya.A.

Efficiency of the Use of Sinter and Briquettes Instead of TITLE:

Ore and Limestone in Open-hearth Furnaces (Effektivnost' primeneniya v martenovskikh pechakh aglomerata i briketov

vzamen rudy i izvestnyaka)

THE PERSON OF TH

PERIODICAL: Stal', 1959, Nr 5, pp 400 - 407 (USSR)

In order to compare the efficiency of using fluxed sinter ABSTRACT:

and ore-lime briquettes instead of ore and limestone in open-hearth furnaces as well as to determine the optimum composition of the above agglomerated materials, experi-

mental heats were carried out in 370-ton open-hearth furnaces at the imeni Dzerzhinskiy Works during 1957-1958 .

Altogether 63 hears with oriquettes, 76 with sinters of various compositions and 90 comparative heats using ore and limestone were made. All heats were made in the

same furnaces and during the same periods. The composition

of briquettes and sinters tested is given in Table 1 (basicity of briquettes varied from 0 - 5.4 and of

Card1/4

Efficiency of the Use of Sinter and Briquettes Instead of Ore and Limestone in Open-hearth Furnaces

sinters from 0.4 to 2.2). Changes in the basicity and FeO content in slag in the course of smelting are shown in Figures 1 and 2, respectively, the main indices of the experimental and comparative heats in Table 2, the comparison of the amounts of CaO, SiO2 and FeO transferred to Flag from various granular materials - Table 3, changes in the SiO2 content of slag in the course of smelting for various heats - Figures 3 and 8, the same changes in slag basicity - Figure 4, the same changes in the P205 content -Figures 5 and 9, the same changes in the CaO content - Figure 6, the same changes in the \$\infty\$FeO and CaO and \$\infty\$FeO contents - Figures 7 and 11, the same changes in the content of sulphur - Figure 10. It was found that the use of fluxed briquettes or sinters instead of ore and limestone leads to a considerably faster formation of slag during the melting down period, to an earlier slag removal and to a corresponding decrease in the melting

Card2/4

SOV/133-59-5-6/31 Efficiency of the Use of Sinter and Briquettes Instead of Ore and Limestone in Open-hearth Furnaces

> period. The use of fluxed briquettes or sinter of a basicity 2.0 - 2.5 without additions or with minimal additions of ore and limestone made it possible: 1) to decrease the melting period in 370-ton furnaces by 40-45 min with an increase in the furnace productivity of 6.7%; 2) to decrease the duration of heating up successive layers of granular materials during the charging period as well as their heating after the charging is completed (which permitted a further decrease of 10-15 min in the duration of heats); 3) to increase slag basicity in the course of smelting and to decrease the FeO content of slag at the beginning of the melting period and to increase its FeO content at the end of this period; 4) to increase the dephosphorising and desulphurising ability of slag due to its earlier formation and higher basicity throughout the whole course of smelting and 5) to exclude blow-outs from the furnace during melting. The briquettes and sinters can also be used with success during refining. The organisation of a large-scale

Card3/4

SOV/133-59-5-6/31 Efficiency of the Use of Sinter and Briquettes Instead of Ore and Limestone in Open-hearth Furnaces

production of fluxed briquettes and sinters for the openhearth furnaces and their wide application in steel-making practice is recommended. There are 11 figures, 3 tables and 6 Soviet references.

ASSOCIATIONS: Ukrainskiy institut metallov (Ukrainian Institute of Metals) and Zavod imeni Dzerzhinskogo (imeni Dzerzhinskiy Works)

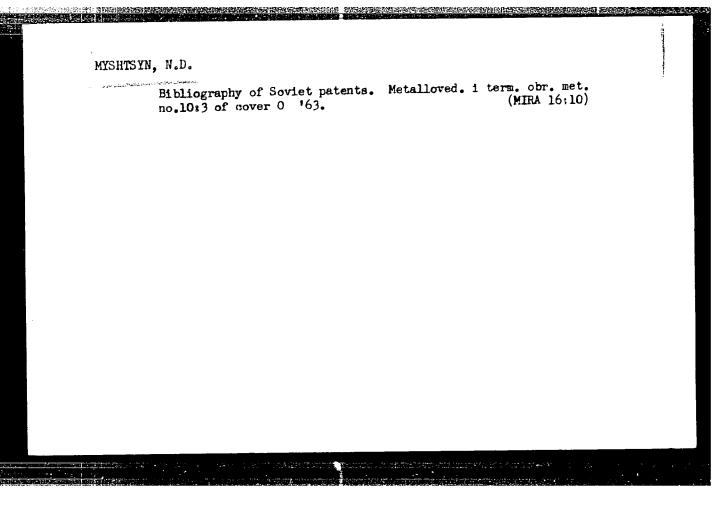
Card 4/4

MASLENNIKOV, N.D., kand.tekhn.nauk; MYSHONKOV, N.I., kand.tekhn.nauk;
ALEESETEV, B.I., kand.tekhn.nauk; SHUNOV, Ye.N., inzh.;
MASLOV, A.A., inzh.; YANKELEVICH, V.M., inzh.; IZYUMSKIY, F.P.,
inzh.

Investigating gas saturation of cast iron smallted in a cupola
furnace. Mashinostroenie no.6:33-36 N.D '62. (MIRA 16:2)
(Cast iron—Defects)

MASLENNIKOV, N.D., kand. tekim. nauk; MYSHONKOV, N.I.; MASLOV, A.A.

Treating liquid pig iron with magnesium salts. Sbor. trud.
UNITM no.9:255-265 \*64 (MIRA 18:1)



SOV/137-58-9-18758

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 87 (USSR)

AUTHOR: Mysh'yanov, N.P.

TITLE: Cobalt Hydrometallurgy Processes (Protsessy gidrometallur-

gii kobal'ta)

PERIODICAL: Materialy Soveshchaniya po vopr. intensifik. i usoversh.

dobychi i tekhnol. pererabotki medno-nikelevykh i nikelevykh rud. 1956 g. Moscow, Profizdat, 1957, pp 210-218

vykh rud. 1956 g. Moscow, Profizdat, 1957, pp 210-216

ABSTRACT: The following are the raw materials used at the cobalt plant of the Noril'sk Kombinat: 1) Converter slags (Co 0.25-0.3%,

Ni 1.5-2.0%, Cu 1.5%), a reducing smelting of which yields an Fe-Co alloy containing Co 1.-1.5%, Fe 40-70%, Ni 23-23%, 2) Fe-Co cakes (products of bulk removal of Co and Fe from nickel-extraction analyte by black Ni hydrates) containing 3.4% Co, 28-30% Ni, 10-12% Fe. The ratio of the amount of Co delivered in the slags to the Co in the cakes is 1:1. The Fe-Co

livered in the slags to the Co in the cakes is 1:1. The Fe-Co alloy is subjected to electrochemical or chlorine dissolution, and the resultant Co solution is treated by a hypochlorite

method. A description is presented of the changes made by the

Card 1/2 plant in the hydrometallurgical portion of the flow sheet,

SOV/137-58-9-18758

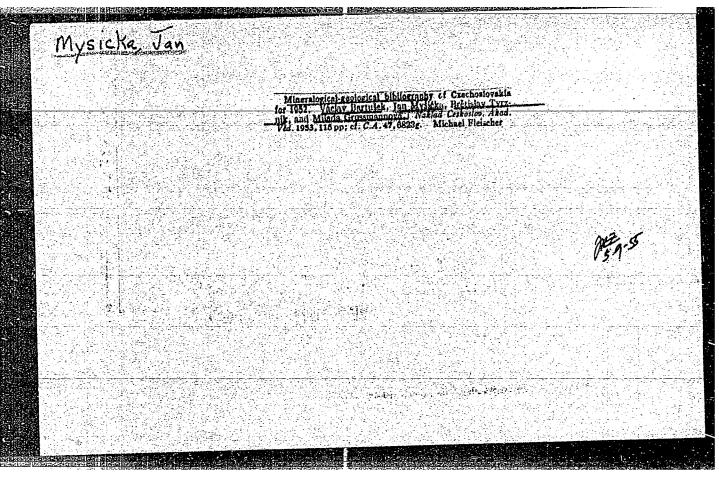
Cobalt Hydrometallurgy Processes

namely, the process of chlorine dissolution of Fe-Co alloy, an improved removal of Fe from the solutions and treatment of the Fe-Co cakes, and filtration of the pulp on drum-type vacuum filters.

N.P.

- 1. Slags--Processing 2. Slags--Reduction 3. Cobalt-iron alloys--Separation
- 4. Cobalt-iron alloys--Electrochemistry 5. Hydrates--Performance

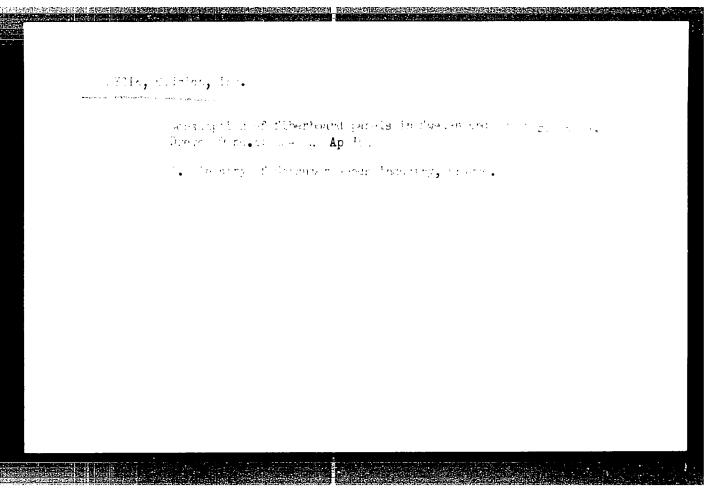
Card 2/2



MYSIELSKI, Jan

Determination of arithmetical operations in Ackermann's model.
Alg. 1 log. 3 no. 5/6:64-65 '64.

1. Instytut matematyczny Polskiej Akademii nauk.



Symposium on the sawmilling industry in Geneva. Dravo 27 no.2:66-68 F 165.
1. Ministry of Consumer Goods Industry, Prague.

MYSIK, Oldrich, inz.

From the symposium on the sawmilling industry in Geneva. Drevc 20 no.3:92-96 Mr '65.

1. Ministry of Consumer Goods Industry, Prague.

BLAZHEK, L. [Elazek, L.] (Chekhoslovaki, a); DVORZAK, E. [Dvorak, E.]
(Chekhoslovakiya); MYSHIK, S. [Mysik, S.] (Chekhoslovakiya)

Agglomeration of nutadiene-styrene latex particles by freezing.

Part.1: Rffect of the nature of emulsifier, pH of latex and Part.1: Rffect of the agglomeration of butadiene-temperature of freezing on the agglomeration of butadiene-temperature latexes. Koll.zhur. 26 no.6:657-661 N-D 164

(NIRA 18:1)

MYSIK, V.

The ranel plant in Most. p. 638

PCZEMNI STAVBY. (Ministerstve stavbnicty) Praha, Czechoslovakia, Vol. 7, no. 12, 1059

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2, Feb. 1960

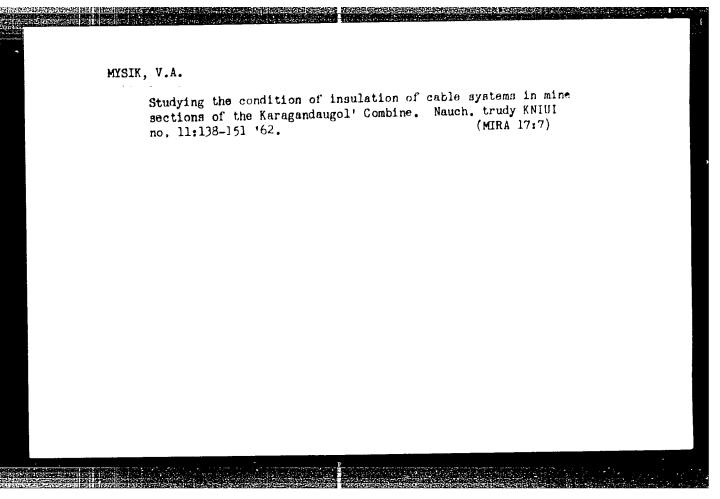
Uncl.

LANGER, Bedrich; MYSIK, Vladimir, inz.

Reduction of heat losses and investment costs in dwelling houses. Poz stavby 13 no.1:21-22 '65.

Thermal insulation of external walls of the experimental building No.351 in Novy Most. Ibid.:23-24

1. Pozemni stavby, Usti nad Labem.

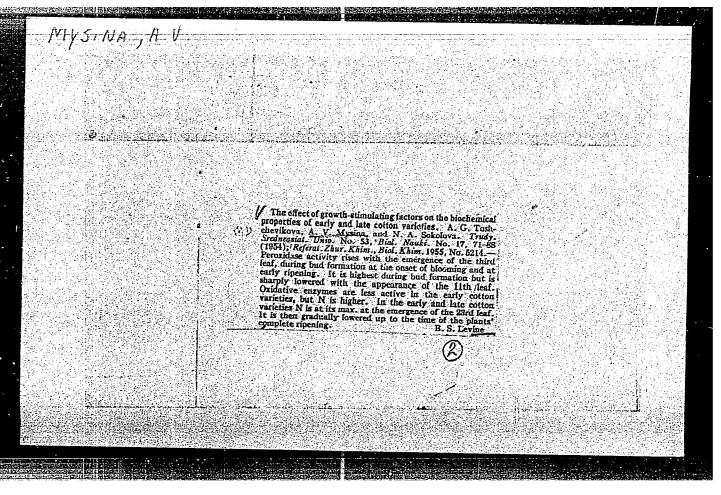


### MYSIN, A. I.

Ethnological Museums and Collections - Mordovia

Ethnographical material in the Mordvirian Recuelic Netural History Museum. Sov. etn., No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified



133-58-5-9/31

AUTHORS: Kolosov, M. I., Ayzenshtok, I. Ya., Komissarov, A. I.,

Mysina, G. Ye. and Povolotskaya, M. S.

TITLE: The Influence of the Weight of Ingots on the Quality of

Structural Steels (Vliyaniye vesa slitka na kachestvo

konstruktsionnykh staley)

PERIODICAL: Stal', 1958, Nr 5, pp 411-414 (USSR)

ABSTRACT: An investigation of the possibility of increasing the weight of ingots of steels 18KhVA, 4OKhNMA, 12Kh2N4A and 3OKhGSA from 1.2 and 2.65 t to 4.5 t was carried out. This increase in weight of ingots was necessary in order to increase the throughput of the casting pit and blooming mill as well as to increase the degree of deformation on rolling profiles of a large cross-section (250 to 300 mm). The investigation was carried out on eight heats made in a 30-ton electric furnace. The experimental metal was teemed into 1.18, 2.65 and 4.5 t ingots. In order to study the character of crystallisation three ingots of various sizes from each melt of each of the steels investigated were selected. After slow cooling and a softening heat treatment from the twelve selected ingots

axial longitudinal plates were cut. The experimental ingots of 2.65 and 4.56 (charged hot into soaking pits) Card 1/4

133-58-5-9/31

The Influence of the Weight of Ingots on the Quality of Structural Steels

were rolled on a blooming mill to a cross-section 250 x 250 mm and then on a mill 800 into semis 140 xIngots weighing 1.18 t were rolled on a mill 800 into semis 140 x 140 mm. For the studies of the macrostructure and mechanical properties specimens were taken from semis 250 x 250 on the following distances from the top of ingots %: Ingot 2.65 t 19, 58, 98
Ingot 4.5 t 19, 39, 58, 78, 98
The macrostructure of etched specimens was evaluated according to MAP-MChM scale. Thermal treatment of specimens for testing mechanical properties was done according to MPTU2333-49. The macrostructure of injots is shown in Figs. 1-4. The results obtained indicated that: 1. Macrostructural defects in rolled steels were caused by defects in the cast structure of ingots. 2. Axial intercrystallite cracks in rolled steel 18KhNVA of a cross-section 250 x 250 from 4.5 t ingots remain unwelded during rolling in spite of a considerable Card 2/4 degree of reduction (in steel 12Kh2N4A they are welded

133-58-5-9/31

The Influence of the Weight of Ingots on the Quality of Structural Steels

on both profiles 140 x 140 mm and 250 x 250 mm (from ingots of all weights). 3. The axial porosity and v-shaped cracks in ingots of steels 40KhNMA and 30KhGSA are welded during rolling. 4. The degree of development of segregation outside the central zone of ingots depends on the chemical composition of steel and increases with increasing weight of ingots, but does not exceed the degree permitted by MAP-MChM 1951. From the steels investigated the highest development of the segregation was observed in ingots of steel 30KhGSA. 5. The weight of ingot has no influence on the mechanical properties of steels. 6. The indices of mechanical properties of steels investigated were high with the exception of the top part of 4.5 ton ingot of steel 30KhGSA, where strength and plasticity indices were lower than is required by standards. It is concluded that: 1. Increasing the weight of ingots of 18KhNVA steel from 1.18 to 2.65 ton to 4.5 t is not advantageous, as this deteriorates the macrostructure of metal due to developing axial intercrystallite cracks which are not welded during rolling. 2. Steels 12Kh2N4A

Card 3/4

133-58-5-9/31

The Influence of the Weight of Ingots on the Quality of Structural Steels

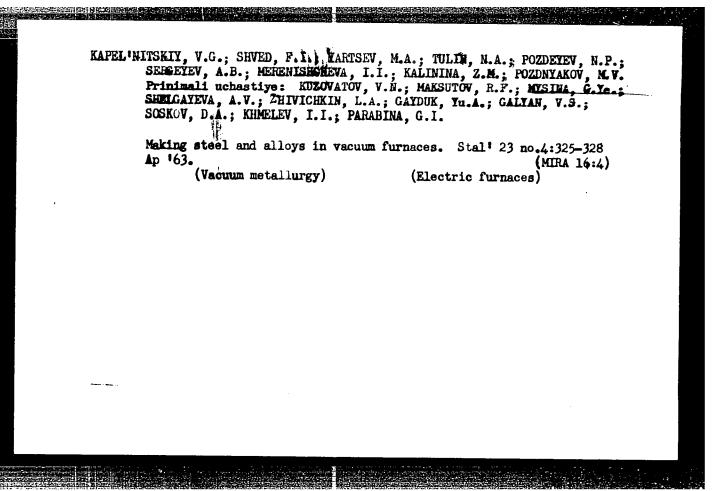
and 40KhNMA can be cast into 4.5 ton ingots as their structure and mechanical properties remain satisfactory.

3. The problem of casting steel 30KhGSA into 4.5 t ingots requires further investigation.

There are 4 figures.

ASSOCIATION: Chelyabinskiy metallurgicheskiy zavod (Chelyabinsk Metallurgical Works)

Card 4/4



KEYS, N.V., inzh.; KOMISSAROV, A.I., inzh.; MYSINA, G.Ye., inzh.; DONETS, R.N., inzh.

Studying the hardenability of bearing steel produced by the Chelyabinsk Metallurgical Plant. Stal' 23 no.4:360-362 Ap '63. (MIRA 16:4)

1. Chelyabinskiy metalurgicheskiy zavod. (Bearing metals—Hardening)

LUBENETS, I.A.; ZHUKOV, D.G.; VOINOV, S.G.; SHALIMOV, A.G.; KOSOY, L.F.;
KALINNIKOV, Ye.S.; CHERNYAKOV, V.A.; YAPTSEV, M.A.; COLIKOV, Ye.S.;
MYSINA, G.Ye.; Prinimali uchastiye: KEYS, N.V.; PF.GOV, V.G.;
MEN SHENIN, Ye.B.; BARNOVALOV, M.A.; SHIPER, G.B.; SHATALOV, M.I.;
MOLCHANOVA, A.A.; ANISIMOVA, M.Ye.

Refining steel with synthetic slag from large-capacity arc furnaces. Stal' 25 no.3:232-235 Mr '65. (MIEA 18:4)

-• 1	19:11 1/1 - 1° 3
	L 12972-65 ENT(m)/EHA(d)/EMP(t)/EMP(z)/EMP(b) JD  ACCESSION NR: AP5008709 S/0133/65/000/003/0232/0235  AUTHOR: Lubenets, I. A.; Zhukov, D. G.; Voinov, S. G.; Shalimov, A. G.; Kosoyo, L. F.; Kalinnikov, Ye. S.; Chernyakov, V. A.; Yartsev, M. A.; Golikov, Ye. S.;  Hysins, G. Ye  TITLE: Synthetic slag refining of steel from large-capacity are ovens  SOURCE: Stal', no. 3, 1965, 232-235  TOPIC TAGS: steel refining, synthetic slag, ball bearing steel, chromium steel, low impurity steel, are oven steel  ARSTRACT: During the second half of 1963, one of the electrical steel-smelting enterprises started introducing the refining of steel by means of synthetic lime- enterprises started introducing the refining of steel by means of synthetic lime- enterprises concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process. Tests were carried out findings concerning the efficiency of this new process.  AND
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L 42972-65 ACCESSION NR: APSO08709 in considerable detail. Specifically, 1) the oven produced 2.5 metric tons/hr. of slag; 2) during production of ball-bearing and construction chromium steel, the slag consumption amounted to 2.8-5.0% of the mass of processed metal; 3) the oven consumed about 1420 kWh per metric ton of slag produced; 4) the shortened refining operation decreased the consumption of electrical energy by 30-40 kWh per metric ton of metal, which compensated fully for the energy requirements for the production of slag; and 5) the productivity of the large-capacity electrical ovens was increased by 10-15%. The new method markedly reduced (as shown in several tables presenting the results of impurity determinations) the amount of nonmetallic impurities and improved the plastic properties of the finished product. The technological procedures described should be able, in the future, to improve the quality of the above-mentioned special steels even more and reduce Improve the quality of the above-mentioned special steels even more and reduce the impurity content even further. "In this work, carried out in conjunction with TRNIICHM, N. V. Keys, V. G. Pegov, Ye. B. Men'shenin, M. A. Barnovalov, G. B. Shirer, M. I. Shatalov, A. A. Molchanova, M. Ye. Anisimova, and others also took part." Orig. art. has: 5 tables. SUB CODE: 100 ASSOCIATION: None EHCL: 00 SUBMITTED: 00 OTHER: 000 NO REF SOV: 001 Cord 2/2 ... \$ 14 ... ...

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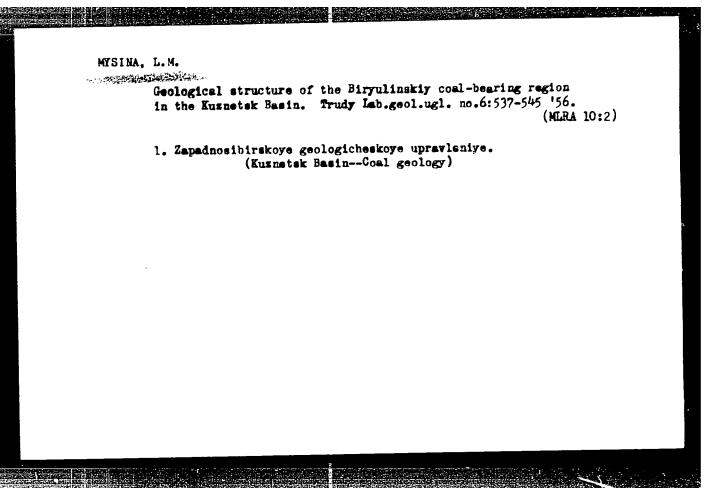
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CCUNTRY : CZECHOSLOVAKIA

CATEGORY : Chemical Technology. Chemical Products and Their

Application. Pesticides.

ABS. JOUR. : RZhKhim., No 17, 1959, No. 62001

AUTHOR : Ettel, V.; Myska, J.

INSTITUTE :

TITE: Crganic Herbicides. I. Substituted 4-Phenylazo-

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ORIG. PUB. : Collect. czechosl. chem. commun., 1958, 23, No 7,

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ABSTRACT: See Ref. Zbur.-Khimiya, 1958, No 12, 40793

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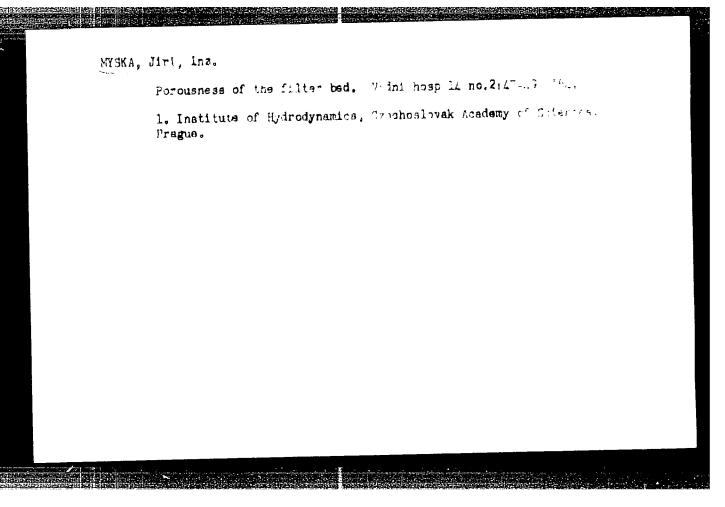
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Z/030/60/000/009/002/004 A121/A026

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AUTHOR:

Myška, L , Engineer

TITLE:

Photographic Images in Glass

PERIODICAL

Jemná Mechanika a Optika, 1960, No. 9, pp. 273-274

The author deals with the preparation of images, scales, etc, in TEXT: glass. In addition to known methods (Refs. 1,2,3,4,5) the method of Hall and Haves (Refs. 6,7) and its three main technologic phases are described in detail The image on the glass surface is formed by photoetching (Refs. 8,9) or by applying the photovacuum methol (Refs. 1.10). The transmission of the invisible image to the inner glass is effected by electric potential or by chemical influence of sulphur trioxide at increased temperature. A detailed description of the electrophoresis method including the required temperature and reaction time, of reduction process causing a visible image by the application of hydrogen atmosphere and of required properties of glass is given. Figure 1 shows a sample of a scale transmitted to a BaF type glass of 1.3 mm thickness, 16 times enlarged; Figure 2 a scale on a nontransparent red ground plate and Figure 3 the scale (Fig. 1) 80 times enlarged. These samples have been prepared according to the author (Ref. 7). In his evaluation the author states that only scales visible with the Card 1/2

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Photographic Images in Glass

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naked eye, not precise and optically not clear, may be produced applying this expensive method. The photo sensitive glass method (Refs. 3,4,11) is briefly described; carriers of sensitiveness are ions of Cu, Ag, Au and Pd, available in the glass and causing dissimilar coloration of image. CeO<sub>2</sub> serves as sensitizer, the image transmission takes place optically applying heat. The photoceramic method (Ref. 5) makes possible the production of extremely fine images, its principle is explained. Although the chemical and mechanical power of resistance of the image does not reach the degree of the two methods described above, it corresponds to the requirements for optical and precision mechanical devices. Finally a precise comparison of the methods mentioned is given. There are 3 figures and 11 references: 4 German, 2 US, 1 British, 1 Soviet, 1 Australian, 1 Austrian, 1 Czech.

ASSOCIATION: (VOJM - Frerov (Research Institute of Optics and Precision Mechanics)

SUBMITTED: February 22, 1960

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